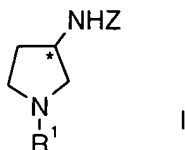


### Abstract

The invention is concerned with a process for the manufacture of vinylpyrrolidinone-cephalosporin derivatives from 3-amino-pyrrolidine derivatives of the formula



wherein

R<sup>1</sup> signifies hydrogen or an amino protecting group;

Z signifies hydrogen or an amino protecting group;

and

\* represents a center of chirality.